

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------------|---|---------------------------------------|------------------|
| 1 | BRS | L1 | 12649 8 | yamada.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:52 |
| 2 | BRS | L2 | 2334 | kiyohara.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:52 |
| 3 | BRS | L3 | 32962 | nagai.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:53 |
| 4 | BRS | L4 | 10473 | aizawa.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:53 |
| 5 | BRS | L5 | 25237 1 | suzuki.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:53 |
| 6 | BRS | L6 | 878 | susa.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:53 |
| 7 | BRS | L7 | 13174 1 | kato.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:53 |
| 8 | BRS | L8 | 2337 | nagamine.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:53 |
| 9 | BRS | L9 | 54666 8 | 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:55 |
| 10 | BRS | L10 | 11654 | saponin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:55 |
| 11 | BRS | L11 | 2 | 110 with presenegenin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:56 |
| 12 | BRS | L12 | 4 | 110 and presenegenin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:57 |
| 13 | BRS | L13 | 2275 | 424/184.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:57 |
| 14 | BRS | L14 | 152 | 424/207.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:58 |
| 15 | BRS | L15 | 513 | 424/208.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:58 |
| 16 | BRS | L16 | 215 | 424/209.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:58 |
| 17 | BRS | L17 | 101 | 424/212.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:58 |
| 18 | BRS | L18 | 101 | 424/215.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:58 |
| 19 | BRS | L19 | 894 | 424/234.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:59 |
| 20 | BRS | L20 | 104 | 424/241.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 13:59 |
| 21 | BRS | L21 | 230 | 424/248.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:00 |
| 22 | BRS | L22 | 71 | 424/263.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:00 |
| 23 | BRS | L23 | 58 | 424/264.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:00 |
| 24 | BRS | L24 | 75 | 424/272.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:00 |
| 25 | BRS | L25 | 228 | 424/265.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:01 |
| 26 | BRS | L26 | 851 | 424/278.1.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:02 |
| 27 | BRS | L27 | 6 | presenegenin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:02 |
| 28 | BRS | L28 | 3 | onjisaponin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:02 |
| 29 | BRS | L29 | 60 | polygalae adj radix | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:03 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|-------|--|---------------------------------------|------------------|
| 30 | BRS | L30 | 96710 | adjuvant | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:03 |
| 31 | BRS | L31 | 2 | 129 and 130 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:04 |
| 32 | BRS | L32 | 3642 | 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:04 |
| 33 | BRS | L33 | 1436 | 121 or 122 or 123 or 124 or 125 or 126 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:05 |
| 34 | BRS | L34 | 4527 | 132 or 133 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:05 |
| 35 | BRS | L35 | 14 | 134 and 19 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:05 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|-------|------------------|---------------------------------------|---------------------|
| 1 | BRS | L1 | 11654 | saponin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:07 |
| 2 | BRS | L2 | 96710 | adjuvant | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:07 |
| 3 | BRS | L3 | 2290 | 11 with 12 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:07 |
| 4 | BRS | L6 | 0 | 14 and polygalae | USPAT; EPO; JPO; DERWENT | 2004/10/21 14:08 |
| 5 | BRS | L4 | 309 | 13 with antigen | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:09 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|------|----------------|---------------------------------------|---------------------|
| 1 | BRS | L1 | 6134 | yabe.in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:28 |
| 2 | BRS | L2 | 4 | l1 and saponin | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/21 14:28 |

FILE 'REGISTRY' ENTERED AT 14:14:43 ON 21 OCT 2004

L1 0 S SAPONIN/RN
L2 1 S SAPONIN/CN
L3 0 S ONJISAPONIN/CN
L4 1 S PRESENEGENIN/CN

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, SCISEARCH' ENTERED AT 14:17:11 ON
21 OCT 2004

L5 0 S 11006-75-0
L6 0 S 11006-75-0
L7 32 S 2163-40-8
L8 3143 S 8047-15-2
L9 0 S L7 AND L8
L10 24 S L7 AND SAPONIN
L11 24 DUP REM L10 (0 DUPLICATES REMOVED)
L12 0 S L11 AND ADJUVANT
L13 25590 S (YAMADA, H?)/AU
L14 933 S (KIYOHARA, H?)/AU
L15 1533 S (YABE, T?)/AU
L16 397 S (AIZAWA, C?)/AU
L17 43795 S (SUZUKI, Y?)/AU
L18 34 S (SUSA, I?)/AU
L19 33425 S (KATO, T?)/AU
L20 1814 S (NAGAMINE, T?)/AU
L21 106352 S L13-L20
L22 7 S L21 AND L8
L23 7 DUP REM L22 (0 DUPLICATES REMOVED)

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 OCT 2004 HIGHEST RN 766487-31-4
DICTIONARY FILE UPDATES: 20 OCT 2004 HIGHEST RN 766487-31-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s saponin/rn
L1 0 SAPONIN/RN

=> s saponin/cn
L2 1 SAPONIN/CN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 8047-15-2 REGISTRY *

* Use of this CAS Registry Number alone as a search term in other STN files may
result in incomplete search results. For additional information, enter HELP
RN* at an online arrow prompt (=>).

CN Saponins (CA INDEX NAME)

OTHER NAMES:

CN Glycosides, sapogenin

CN Sapogenins, glycosides

CN **Saponin**

CN Saponosides

DR 11006-75-0

MF Unspecified

CI MAN, CTS

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA,
CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB, EMBASE, IFICDB,
IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, RTECS*,
TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Journal; Patent

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

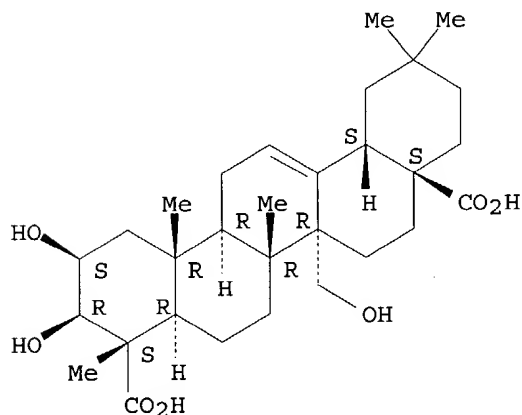
=> s onjisaponin/cn
L3 0 ONJISAPONIN/CN

=> s presenegenin/cn
L4 1 PRESENEGENIN/CN

=> d

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 2163-40-8 REGISTRY
CN Olean-12-ene-23,28-dioic acid, 2,3,27-trihydroxy-,
(2 β ,3 β ,4 α)-(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Olean-12-ene-23,28-dioic acid, 2 β ,3 β ,27-trihydroxy- (7CI, 8CI)
OTHER NAMES:
CN 2 β ,3 β ,27-Trihydroxy- Δ 12-oleanene-23,28-dioic acid
CN 2 β ,3 β ,27-Trihydroxyolean-12-ene-23,28-dioic acid
CN **Presenegenin**
FS STEREOSEARCH
MF C30 H46 O7
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
MEDLINE, TOXCENTER
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study)
RL.NP Roles from non-patents: BIOL (Biological study); OCCU (Occurrence);
PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES
(Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

22 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
22 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1647sxb

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options,
resulting in a closer connection to BABS
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
fields
NEWS 5 AUG 02 CAPLUS and CA patent records enhanced with European and Japan
Patent Office Classifications
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!
(Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
status data from INPADOC
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 27 STANDARDS will no longer be available on STN
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:14:31 ON 21 OCT 2004

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:14:43 ON 21 OCT 2004